Ontario

Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

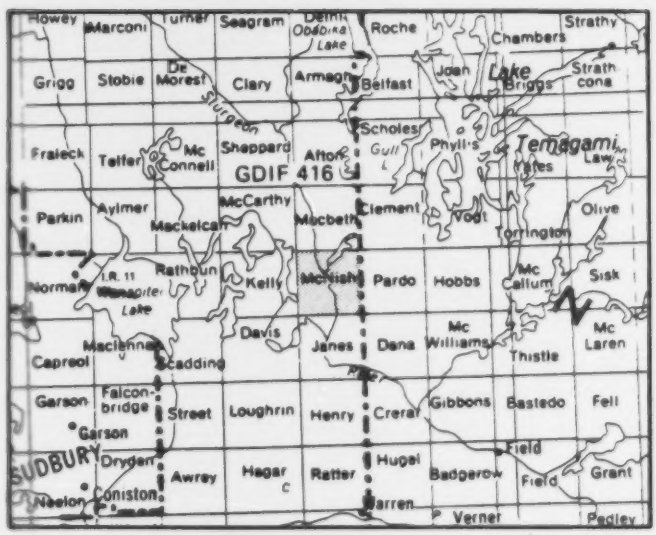
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 416

McNISH TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

88-02301/

NTS Number 41 I/16

Mining Claim Map Number G-2909

This project is part of the Canada-Ontario Mineral Development Agreement (COMDA), which is a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1988: McNish Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 416, compiled by the staff of the Resident Geologist's Office, Sudbury, 20 pages and 2 maps.

Original Compilation by: Jerome, Lucille, May 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

McNISH TOWNSHIP

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ACCOMPANYING MAPS

Property Location Map 1 map

Exploration Data Map 1 map

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	Yes	L.J.
10	GSC Index to Publications	Yes	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.)	Yes	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	Miscellaneous Papers: ODM & OGS	Yes	L.J.
16	ODM Geological Circulars: OGS Study Series	No	L.J.
17	ODM Preliminary Reports: ODM Bulletins	No	L.J.
18	ODM – OGS Open File Reports	Yes	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	Yes	L.J.
23	Aerial Photographs on File, Sudbury	Yes	L.J.

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
△ ba. . . . . .Barite
△ be. . . . . Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
▲ Cd . . . . . Cadmium
△ calc. . . . . Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
△ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
△ gn. . . . . Galena
△ gt. . . . . Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . Gypsum
△ hem . . . . . Hematite
△ il . . . . . Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
▲ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . Magnesite
△ mag . . . . . Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . Millerite
△ mo . . . . . Molybdenite
△ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . Palladium
△ peat . . . . . .Peat
△ pent . . . . . Pentlandite
△ Pt. . . . . .Platinum
△ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur. . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
▲ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
▲ Zn . . . . . .Zinc
△ zr. . . . . Zircon
△ S. . . . . Sulphide
△ cv. . . . . .Covellite

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	*Jerome, A. E. Sr.	Cu, Ag, Au	--	--	Assessment File McNish 0012
B	McNish Township Showing, Nichol, W. H.	Cu, Ni	--	--	O.G.S. Map 2361 Assessment File McNish 0010-D1
C	*Ozhway Lake Prospect	Cu, Pb, Zn, Ag, Cd	Cu 2	MRC 2, p. 99 MRC 12, p. 255	O.G.S. Map 2361 Assessment File MacBeth 0012-A1
D	Saville, Th. D.	U	--	MDC 25, p. 120	GR 191, p. 81, Map 2425 O.G.S. Map 2361
E	*Waltenbury, G.	Cu, Ni, Pb, Zn, Ag, Au	Cu 6	--	O.G.S. Map 2361 Assessment File MacBeth 0012-A1

* see page 9

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	OTHER		
1	Dupras, A.			56	55 56															
2	Dupras, A. and Giroux, A. A.			53	53															
3	Jerome Explorations Ltd.	72 73		72 73	72 73	72		72 73				72 73	72 73							
4	Kennco Explorations Ltd.								68	68										
5	Mylake Mines Ltd., Lord, W. H.				58															
6	Newmont Mining Corporation of Canada Ltd.				?															
7	Nichol, W. H.				57 59															
8	Palston Mining and Development Co. Ltd.	56		56	56	56		56				56[1]	56							
9	Waltenbury, G.			30-39														30[2]-39		

[1] Gravity Survey

[2] Shaft 16' deep

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	Dupras, A.	5	1955	315	45	0	103		
1		6	1956	270	45	0	71		
1		7	1956	270	20	0	48		
1		8	1956	270	10	0	45	py	
1		12	1956	090	55	0	157	py	
2		13	1956		90	0	40		
2		14	1956	135	60	0	136		
3	Dupras, A. and Giroux, A. A.	1	1953	180	45	3	70	py	
4		1	1953	045	55	4	301		
4		2	1953		90	17	35	py	
4		3	1953	315	45	2	57	py	
5	Jerome Explorations Ltd.	1	1972	168	65	2	213	po, py, cp, mag	Cu,Au,Ag
5		2	1973	165	75	2	154	po, cp	Cu,Au,Ag
6		3	1973	164	60	0	145	po, py, cp	Cu,Au,Ag
6		4	1973	088	49	4	82	po, cp	Cu,Au,Ag
6		5	1973	268	35	0	95	po, cp	Cu,Au,Ag
6		6	1973	268	50	0	54	po, cp	
6		7	1973	090	60	0	30	po, cp	
6		8	1973	270	45	0	50	po, cp	Cu,Au,Ag
7		9	1973	055	60	0	180	po, cp	Cu,Au,Ag
7		10	1973	090	45	0	160	cp, po, sp, gt	Cu,Ag,Au,Zn
7		11	1973	180	85	0	85	cp, po, py	Cu,Ag,Au
7		11A	1973	090	60	0	63	cp, po	Cu,Ag,Au,Zn
8		12	1973	360	45	0	80	cp, po	Cu,Ag,Au
8		12A	1973	315	55	0	105	cp, po	Cu,Ag,Au
9		13	1973	180	45	0	70	cp, po	Cu
10		14	1973	210	45	0	78	po	
10		15	1973	270	45	0	35	cp, po	
10		15A	1973	090	40	0	105	cp, po	Cu,Ag,Au
10		15B	1973	270	80	0	60	cp, po	
9		16	1973	090	75	0	61	cp, po, py	
9		16A	1973	270	65	0	80	cp, po, py	
9		16B	1973	180	85	0	69	cp, po, py, mar	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
11	Jerome Explorations Ltd.	17	1973	285	60	0	17	cp, po	
11	(cont'd)	17A	1973	285	75	0	75	cp, po	
12	Mylake Mines Ltd.	1	1958	?	30	0	60		
12		2	1958	?	25	0	60	mineralization	
12		3	1958	?	30	0	60		
12		4	1958	?	20	0	55		
12		5	1958	?	25	0	50		
12		6	1958	?	25	0	55		
12		7	1958	?	20	0	55		
12		8	1958	?	25	0	75	py	
13		1	1958	?	20	0	65		
13		2	1958	?	30	0	60		
13		3	1958	?	26	0	50		
14	Newmont Mining Corporation of Canada Ltd.	?	?	?	?	?	3910	po, py	
15	Nichol, W. H.	1	1957	090	?	0	200	Cu, po, cp	
15		2	1957	090	?	0	200	cp	
15		1	1959	090	?	0	160	Cu	
16	Palston Mining and	1	1956	210	55	0	55	cp, po	
16	Development Co. Ltd.	2	1956	030	40	0	25	cp, po	

GDIF FORM NO. 3

MCNISH TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	Questor Surveys Ltd. Kennco Explorations Ltd.	Airborne Magnetic Airborne Electromagnetic	400'	Normal S	1000-1200 ft.

GDIF FORM NO. 4

McNISH TOWNSHIP

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Due to a lack of space on the Exploration Data Map, three mineral occurrences were chosen to represent twenty-four mineralized showings found in northwestern McNish Township.

Mineral Occurrence A is a copper-silver-gold showing found in 1971 by A. E. Jerome Sr. on the west bank of the Sturgeon River. Eight other showings were discovered by Mr. Jerome in the area while he re-examined eight previously known showings (Ref.: Showing No. 13, Assessment File McNish 0012).

Mineral Occurrence C was first discovered and worked by George Waltenbury in the 1930's. However, it is the most significant showing examined by Mr. Stone for the Palston Mining and Development Company in 1956. Several other showings of copper, lead, zinc, and silver were discovered by Mr. Stone. In all, in 1956 Mr. Stone examined 15 mineralized showings (Ref.: Showing No. 8, Assessment File MacBeth 0012-A1).

Mineral Occurrence E is the first showing discovered by George Waltenbury in the 1930's. He sank a 16' deep shaft to further explore the showing. Mr. Waltenbury opened up several other showings in the northwestern part of McNish Township by trenching and pitting (Ref.: Showing No. 3, Assessment File MacBeth 0012-A1).

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Sudbury

Jerome Explorations Ltd.

Northern Miner	September 20, 1973
	August 30, 1973
	June 28, 1973
	January 29, 1973
	January 11, 1973
	December 14, 1972
	October 26, 1972
	September 28, 1972
	June 15, 1972

Falston Mining and Development Co. Ltd.

Northern Miner	March 14, 1957
	February 7, 1957
	August 2, 1956

ODM GENERAL INDEX SEARCH

Words searched:

DUPRAS, A.
GIROUX, A.
JEROME, A. E. SR.
JEROME EXPLORATIONS LTD.
KENNCO EXPLORATIONS LTD.
LORD, W. H.
MCNISH TOWNSHIP
MYLAKE MINES LTD.
NICHOL, W. H.
OZHWAY LAKE
PALSTON MINING AND DEVELOPMENT CO.
SILVER CREEK

Index Volume	Listing:	Report Volume	Part	Page
1	Sturgeon River, Nipissing Lake			
	Character	16	1	110
	Country between, and Wanapitei River	N.O.		90
	Description	N.O.		101-104
	Drainage area	N.O.		96
	Minerals	N.O.		102
	Photos	N.O.		92, 93
	Quartz veins staked	N.O.		88
	Rocks on and near	16	1	112
	gneiss	1		69
	Huronian	N.O.		113
	quartzite, feldspathic	1		72
	Routes to	N.O.		84, 99
	Soil	N.O.		XIX, 88, 90
3	Jerome Exploration Co. Ltd.			
	Incorporated	48	1	45
3	McNish Tp., Sud.			
	Geology, report by E. L. Bruce	41	4	1-28
4	Mylake Mines Ltd.			
	Change of name	54	1	50
6	Palston Mining and Development Co. Ltd.			
	Incorporated	66	1	33
7	Mining property, McNish Tp.,			
	report on (1957)	MRC2		99
8	McNish Tp., Sudbury Dist.			
	Copper/lead/zinc/silver	MRC12		256-257
8	Ozhway Lake Prospect			
	McNish Tp., Sudbury Dist.			
	mining property, report on	MRC12		255-256
9	Jerome, A. E.			
	McNish Tp., Sudbury Dist.	MP67		115
		GR191		76-77
9	McNish and Janes tps., Sudbury Dist.			
	Copper/nickel	GR191		68-72
	Uranium	GR191		82
	Garnet/sand/gravel	GR191		81-82

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

STURGEON RIVER
WALTENBURY, GEORGE

Index Volume	Listing:	Report Volume	Part	Page
9	McNish and Janes tps., Sudbury Dist., (cont'd)			
	Geology of the area			
	Report & map 2425 on, 1969 by B. O. Dressler	GR191		
	Sulphides	GR191		72-81
	Summary of field work, 1976 by B. Dressler	MP67		114-117
9	Ozhway Lake			
	McNish Tp., Sudbury Dist.	GR191		76, 77
9	Palston Mining & Dev. Co.			
	McNish Tp., Sudbury Dist.	MP67		115
	report on Waltenbury Occurrence	GR191		77, 80
9	Silver Creek			
	McNish & Janes tps., Sudbury Dist.	GR191		11
9	Waltenbury, G.			
	McNish Tp., Sudbury Dist.	GR191		77

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D., Lumbers, S. B.	1974-75	Sudbury-Cobalt	O.G.S. Map 2361	1" = 4 miles
Dressler, B.	1977	McNish Township	O.G.S. Map P.1230	1" = ¼ mile
Lumbers, S. B.	1973	River Valley Area	O.D.M. Map P.844	1" = 1 mile
Meyn, H. D.	1966	Capreol Sheet	O.G.S. Map P.367	1" = 2 miles
		GEOPHYSICAL MAPS		
Dept. of E.M.R.	1965	Aeromagnetic Map - Lake Temagami Sheet	1502G	1" = 1 mile
		Aeromagnetic Map - Glen Afton Sheet	1501G	1" = 1 mile
G.H.D. Consultants	?	Aeromagnetic Map - Sudbury Research Project	Map 1	1" = ½ mile
Gupta, V. K., Wadge, D. R.	1980	Bouguer Gravity and Generalized Map, North Bay - Martin River Area	O.G.S. Map P.2297	1:100,000
O.D.M. - G.S.C.	1965	Aeromagnetic Map - Sudbury Sheet	7067G	1" = 4 miles
O.G.S. - G.S.C.	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
Dept. of E.M.R.	1975	Topographic Map - Lake Temagami		1:50,000
		Topographic Map - Glen Afton		1:50,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map - Capreol N.O.E.G.T. Study 95 Capreol	Map 5001	1:100,000
		MINERAL POTENTIAL MAPS		
Innes, D. G., and Jost, M.	1977	Nickel Deposits of Ontario - East Central Sheet	P.1062	1" = 16 miles
Robertson, J. A.	1982	Uranium and Thorium Deposits of Ontario - East Central Sheet	Map 2426	1" = 16 miles
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	P. 1512	1:250,000
		GEOCHEMICAL MAPS		
		None as of May 13, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	McNish Township, Sudbury Data Series	O.G.S. Map P.2199	1" = ¼ mile
Bruce, E. L.	1932	Geology of the Townships of Janes, McNish, Pardo and Dana, Sudbury and Nipissing Districts	O.D.M. AR Vol. 41, pt. 4 COLMAP 41F	pp. 1-28 1" = ½ mile
Dressler, B. O.	1979	Geology of McNish and Janes Township	GR191 COLMAP 2425	1" = ½ mile
Edgar, A. D.	1986	Grant 100. Petrology, Geochemistry and Economic Potential of the Nipissing Gabbro	OFR 5573	
Fralick, P. W. and Miall, A. D.	1982	Grant 84. Sedimentology of Huronian Deposits, Including Uranium Bearing Rocks	OFR 5375	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Murray, A.	1856	On the Geology and Topography of the Sturgeon, Maskinonge, French and Wanapitei Rivers and Whitefish River and its Lakes	G.S.C. Rept. of Progress	
Robertson, J. A. and Kerry L. G.	1983	Uranium and Thorium Deposits of Northern Ontario	MDC 25	p. 120
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield	G.S.C. Paper 68-40	
Shklanka, R., Editor	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario	MRC 12	p. 255
Thomson, J. E.	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury	GR 1, Chart A Chart H	1" = 6 miles
Thomson, J. E. et al	1957	Copper, Nickel, Lead and Zinc Deposits in Ontario	MRC 2	p. 99
Wilson, W. J.	1906	The Region Between Lake Temagami and Spanish River, Ontario	G.S.C. Sum. Rept.	pp. 82-84
Young, G. A.	1904	On Surveys Between Rabbit and Temagami Lakes	G.S.C. AR	pp. 195-198
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Bell, A. M.	1929	The Relation of Silver Ores to Diabase; M. A., University of Toronto	MP 2	
Brocoum, S. J. and Dalziel, I. W.	1974	The Sudbury Basin, the Southern Province, the Grenville Front and the Penokean Orogeny	Geol. Soc. Amer. Bull. 85(4)	pp. 1571-1580
Card, K. D.	1959	The Uranium-bearing Huronian Sediments of the Sudbury District; B.Sc., Queen's University	MP 2	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation, Ontario and Quebec, Canada	Sudbury Theses File	
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario	Geol. Soc. Amer. Bull. 80	pp. 1685-1702
Long, D. G.	1978	Depositional Environments of a Thick Proterozoic Sandstone: the (Huronian) Mississagi Formation of Ontario	C.J.E.S. Vol. 15	pp. 190-206
Morris, W. A.	1981	A Positive Fold Test from Nipissing Diabase	National Research Council of Canada	pp. 591-598
Mossman, D. J.	1983	Origin and Distribution of Gold in the Huronian Supergroup, Canada - The Case for Witwatersrand-Type Paleoplacers	Precambrian Research, Vol. 20, # 2-4	pp. 543-583
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Formation, Ontario; M.Sc., University of Calgary	Sudbury Theses File	
Robertson, J. A.	1981	The Uranium Deposits of Ontario - Their Distribution and Classification	MP 86	
Rowell, W. F.	1984	Platinum Group Elements and Gold in the Wanapitei Nipissing-Type Intrusion, Northeastern Ontario	Sudbury Theses File	
Young, G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario, Canada	Earth's Pre-Pleistocene Glacial Record, Cambridge University Press	pp. 807-812

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Young, G. M. and Nesbitt, H. W.	1985	The Gowganda Formation in the Southern Part of the Huronian Outcrop Belt, Ontario, Canada: Stratigraphy, Depositional and Regional Tectonic Significance	Precambrian Research, Vol. 29	pp. 265-301

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.9

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS INDEX

Scale 1" = ½ mile

Sudbury File

Year	Roll	Line	Number
1977	20	4633	98
	22	4631	58
	22	4630	145
1970	24	4633	257-262
	26	4632	34-40
	26	4631	98-104
	30	4630	33-39
1946	37	142	46
	37	143	16
	36	144	106

GDIF FORM NO.10

NOTE - 4 Refers to Whole Township

Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 416

(Map 1 of 2)

McNISH TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

EXPLORATION DATA FILE AREAS

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 416

(Map 1 of 2)

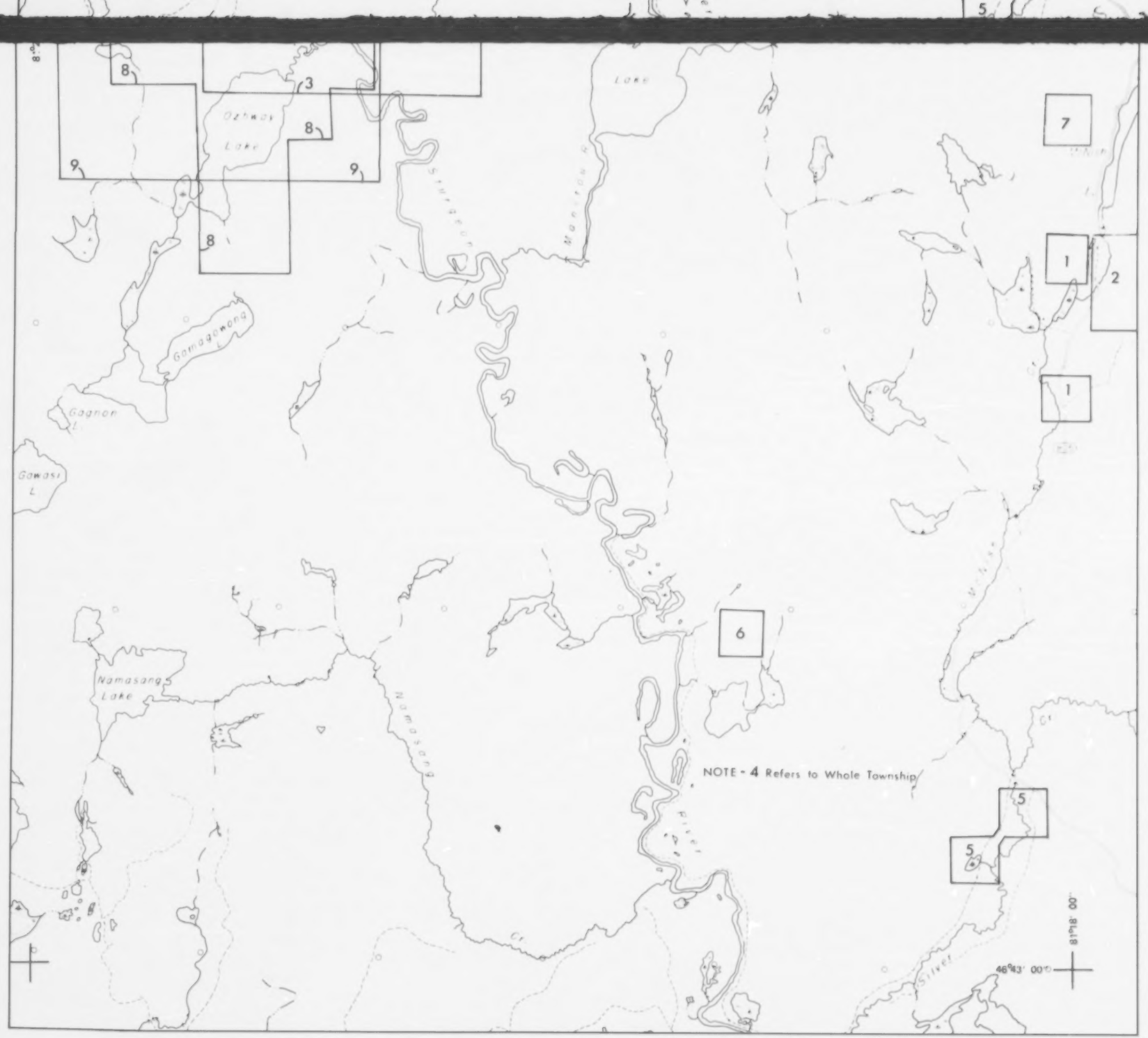
McNISH TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

■ Reference number is always inside work area outlined. See listing in text pages.

□ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Rock quarry
- Sand and/or gravel pit

Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 416

(Map 2 of 2)

McNISH TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter
- cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- ⊙² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number

☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

■ —AM— Airborne magnetic anomaly

☐ Airborne electromagnetic anomaly
Length of anomaly along flight line

■ Airborne electromagnetic anomaly
Location of anomaly along flight line

☐ Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible

☐ —ARA— Airborne radiometric anomaly

■ —M— Ground magnetic anomaly

■ —VL— Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop
VLF - Very low freq; Turam; JEM -
Crone Em - 16)

☐ —RA— Ground radiometric anomaly

☐ —IP— Induced polarization anomaly

☐ —SP— Self potential anomaly

☐ —AFMAG— Audio-frequency magnetic anomaly
(total intensity)

☐ —R— Resistivity anomaly

■ —GR— Gravity anomaly

MISCELLANEOUS DATA

■ Trenching, pit

☐ Adit

☐ Open pit

☐ Rock quarry

☐ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 416

(Map 2 of 2)

McNISH TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

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- cp A. — Mineralized float with reference letter
- cp A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- ⊙² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number